

COUNCIL COMMUNICATION

TO:	THE CITY COUNCIL	COUNCIL MEETING DATE	NO.
FROM:	THE CITY MANAGER'S OFFICE	SEPTEMBER 5, 1990	
SUBJECT:	SPECIFICATIONS AND ADVERTISEMENT FOR BIDS FOR THE PURCHASE OF 270 HIGH PRESSURE SODIUM LUMINAIRES		

RECOMMENDED ACTION: That the City Council approve the specifications for the purchase of a total of 270 High Pressure Sodium luminaires and authorize advertisement for bids thereon. The requirements include 210 100-watt and 60 250-watt luminaires.

BACKGROUND INFORMATION: The Electric Utility Department has issued preliminary work orders to replace Mercury Vapor lights with the more economical High Pressure Sodium lights.

Some of the areas where the conversions will take place are

Crescent/Holly/Carlo Way/California Street block;
Century/South Ham Lane/Harney/Winchester/Scarborough Drives;
Century/Alpine/Mulberry/Gateway Circle;
Cochran/Tilden/Sunwest Drive areas.

A portion of the quantity purchased will be placed in inventory to support routine maintenance and replacement.

The estimated cost of this purchase is \$21,000, and funding is available in the Public Works/Street Light Maintenance account.

The bid opening date has been scheduled for Tuesday, September 18, 1990.



Joel E. Harris
Purchasing Officer

cc: Director, Public Works Department
Director, Electric Utility Department
Assistant Director, Electric Utility Department
Street Superintendent
Electrical Engineer

EQUIPMENT SPECIFICATIONS

LUMINAIRES

GENERAL

Luminaires shall be furnished, without lamps or photoelectric control units, in compliance with these specifications. Equipment furnished shall be tested and approved, according to procedures set forth by I.E.S. specifications, and shall meet the minimum standards set forth in the ASTM and EEI-NEMA latest revisions.

LUMINAIRES

- A. Ballasts: Ballasts shall be of the regulated type and shall be integral with the luminaires. Ballasts shall have a minimum power factor of 90%; inrush current shall be less than operating current, shall operate at plus or minus 10% rated voltage. Voltage and wattage shall be as specified. Ballasts shall be of the type recommended for high pressure sodium lamps.
- B. Light Distribution: Luminaires shall be of Type III light distribution for multiple operation, equipped with photoelectric twist-lock type receptacle.. The receptacle shall be adjustable to permit reorientation of the photoelectric control unit.
- C. Reflector: Reflector shall be removable and highly specular.
- D. Refractor: I.E.S. type refractor shall be furnished. Acrylic refractor shall be supplied for 100-watt and glass refractor shall be supplied for 250-watt luminaires. Refractor latch shall be vibration proof to prevent accidental opening of the door. Gaskets shall be used to seal the optical assembly at socket entry and between reflector and refractor.
- E. Slip Fitter: Slip fitter shall be adjustable from 1-1/4" through 2" pipe without rearranging of mounting parts, and adjustable plus or minus 5 degrees from horizontal.
- F. Housing: Outer housing shall be cast aluminum and similar in design to American Electric series 113 or General Electric series M2RR.

SPECIFIC

- A. Item 1: 100-watt, 120-volt, high-pressure sodium, similar to GE #M2RR10S1H2AMS3 or AE #113-56213-6.
- B. Item 2: 250-watt, 120/208/240/277-volt, high-pressure sodium, similar to GE #M2RR25SOH2GMS3 or AE #113-0H133.